



**Mi-T-M**<sup>®</sup>  
CORPORATION

### SAFETY PRECAUTIONS

1. You as the owner of this Sand Injector are responsible for the safety of the operator. Read and understand this manual. Provide a copy to the operator as standard procedure.
2. Before attempting to install this injector, make sure the machine is shut off and the pressure in the system is released (by triggering the gun momentarily).
3. Protective goggles are supplied with this sand injector.
4. Always wear eye protection when using a pressure washer. Other protective clothing, i.e. rubber suits, rubber gloves, respirator, etc. may be necessary. Read sand label for recommended precautions.
5. When using the injector with a pressure washer, the operator must be provided with an operator's manual for that model and become acquainted with all the safety, installation and operational procedures provided therein.

### OPERATION INSTRUCTIONS

Place the sand induction probe in the sand supply container.

Connect the mixing head to the spray wand. Start the machine per manufacturer's instruction.

Trigger the gun to activate the spray.

Check the distance to hold the spray nozzle from the surface by starting to spray at a scrap of material from a distance of several feet. Gradually move closer, checking frequently to see if the high pressure spray is damaging the surface.

Refer to the application table for the type of sand recommended for your work surface.

Always point the sand nozzle downward when not spraying. This will prevent water from entering the sand supply. If water does get into the sand supply hose, remove the probe from the sand, hold control handle trigger open, and let the hose air dry. Always be sure the sand hose is dry before using.

Keep the sand covered to prevent the overspray from wetting the sand. Do not allow small fragments of the sand bag to fall into the sand supply. A small paper fragment could prevent the flow of sand.

After the sandblasting operation is complete, remove the probe from the sand, trigger the gun to clear the hose and probe of sand. Then remove the hose from the mixing head and rinse with water to remove all the sand before storage.

### APPLICATIONS

**Sand Mesh:** Sand mesh refers to the size of screen through which a particular grade of sand will pass. A 16/50 mesh means that normally, most of the particles will pass through a #16 screen and a very small percentage will pass through a #50 screen.

**Note:** A #16 screen has 16 0.046 holes per square inch.

**Round Sand:** This refers to the round edge of the grain of sand. River sand is a good example of sand worn to its shape by water.

**Angular Sand:** This refers to grains of sand which have triangular shaped edges. Crushed rock or sand is usually of this type.

**Blasting Angle and Distance:** The blasting angle can affect the sandblasting distance. For the best sandblasting performance always maintain the recommended blasting angle and the proper distance for your work surface.

**CAUTION: RISK OF INJURY! READ ENTIRE MANUAL BEFORE OPERATING! THIS MANUAL IS AN IMPORTANT PART OF THE SAND INJECTOR AND MUST REMAIN WITH THIS UNIT!**

## SAND INJECTOR AW-3000-0000

Manufactured by Mi-T-M  
50 Mi-T-M Drive, Peosta IA 52068  
563-556-7484/ Fax 563-556-1235

### WARNING

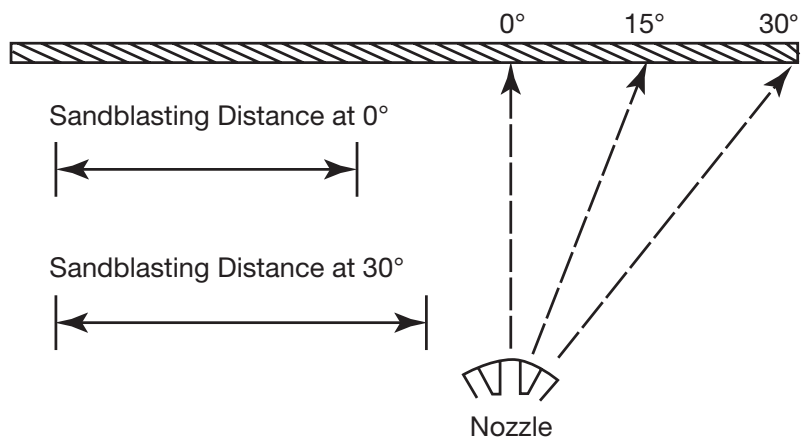
**Warning:** This product contains lead, a chemical known to the State of California to cause birth defects or other reproductive harm.

**Wash your hands after handling this product.**

### WARNING

This product contains one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**Blasting Angle and Distance Chart**

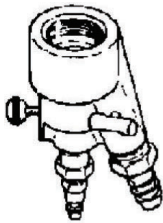


### SAND MESH CHART

Removal of:	Sand Mesh	Sand Type	Blasting Angle
Paint from Metal	20/40	Round Silica	0 - 30°
Paint from Masonary	20/40	Round Silica	0 - 20°
Rubber Base Paint from Masonary	10/35	Angular	0 - 15°
Paint from Wood (course, rough cut effect)	40/60	Round	1 - 310°
Paint from Wood (smoother, driftwood effect)	20/40	Round	1 - 10°
Metal Scale	20/40	Round	0 - 15°
Rust	16/50	Angular	0 - 25°

### SPECIFICATIONS

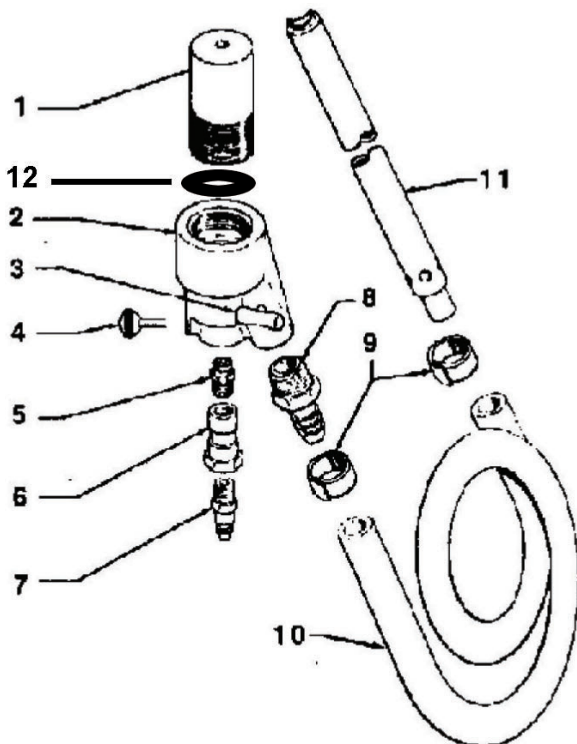
Complete Sandblast Kit	50-0187
Max. Working Pressure	5500 PSI
Min. Working Pressure	1500 PSI
Max. Flow	10 GPM
Min. Flow	3 GPM
Max. Temperature	200° F
Weight	10 lb.
Material	Plated carbon steel, SST, Brass Aluminum, Rubber, Tungsten Carbide, Plastic



Mixing Head Complete

### TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSES	REMEDY
No Sand.	Plugged sand probe. Plugged gun. Wet sand. Low vacuum.	Clear obstructions and make sure air vents in sand probe are open. Remove mixing nozzle and inspect mixing chamber. Dry or replace sand. Close sand/air valve, or repair air leak in system.
Not enough sand.	Low water pressure. Incorrect spray nozzle. Collapsed hose. Partial obstruction to sand probe.	Check pump and spray tip for proper operation. Change to 15° spray angle. Replace hose, or remove restriction. Clear obstruction from sand probe inlet.
Spray Tip Replacement	Spray tip replacement is made by removing the nozzle holder. The assembly should be thoroughly cleaned of sand to prevent damage to the threads and clogging of the sand nozzle. A 9/16" socket can be used to remove and install the new spray tip.	



### PARTS LIST

REF #	DESCRIPTION	PART NO.
1	SAND NOZZLE	18-0113
2	MIXING HEAD	N/A SEP.
3	AIR/SAND VALVE	N/A SEP.
4	THUMBSCREW	27-8498
5	SPRAY NOZZLE	SPECIFY SIZE
6	NOZZLE HOLDER	23-0500
7	QUICK CONNECT	17-0072
8	HOSE BARB	23-0008
9	HOSE CLAMP	42-0003
10	HOSE - 25 FT. REQUIRED	15-0304
11	SAND PROBE	50-0188
12	WASHER	26-0373
2 THRU 8 MIXING HEAD COMPLETE		50-0189